Biodiversity Conservation Toolbox for Planners

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
1 REF	*Washington State*	Washington Natural Heritage Program Reference Desk	•Master planning •Critical areas •Ecosystem assessments	Information products related to the presence of rare plant species and natural ecosystems, including GIS maps, Field Guide to Washington's Ecological Systems, plant lists and more.	WNHP	WNHP	Ongoing	Website, PDF, other	http://www1.dnr.wa.gov/nhp/refdesk/index.html
2 REF	*Washington State*	Washington's Priority Habitat and Species List	•Master planning •Critical areas •Ecosystem assessments •Open space planning	Catalog of species and habitats identified as priorities for management and preservation. Used to fulfill planning requirements under the Growth Management Act and Shoreline Management Act and to prioritize habitat protection.	WDFW	WDFW Habitat Program	Ongoing	Website, PDF	http://wdfw.wa.gov/conservation/phs/list/
3 REF	*Washington State*	Futurewise	•Comprehensive planning •Shoreline planning •Open space planning	Non-profit organization that works with decision-makers and citizens to develop plans for their communities. Areas of focus: advocacy, education, legal program and technical support.	Futurewise	Futurewise	Ongoing	Website	http://futurewise.org/about
4 REF	*Washington State*	Comprehensive Wildlife Conservation Strategy	•Habitat management planning	Framework for protection of Washington's species and habitats in greatest need of conservation that recognizes the importance of keeping common species common. Completed in 2005 to fulfill a federal requirement to obtain funding from the State Wildlife Grants (SWG) program. Now called the Wildlife Action Plan (WAP).	WDFW	WDFW	2005	Website, PDF	http://wdfw.wa.gov/conservation/cwcs/
5 REF	*Pierce County*	Pierce County Biodiversity Planning	•Open space planning	Overview of efforts made to protect biodiversity in Pierce County through open space planning, including how the biodiversity plan was created and implemented.	Pierce County	Katherine Brooks	2007	Website	http://co.pierce.wa.us/pc/services/home/property/pals/other/biodiversity.htm
6 REF	*Washington State*	State Agency Resources for Local Governments Updating Critical Areas Ordinances	•Critical areas	Synthesis of information available from state agencies for local governments updating Critical Area Ordinances. Examples include information on protecting wetlands and summaries of best available science.	COM	COM	2009	WORD doc	http://www.commerce.wa.gov/DesktopModules/CTEDPublications/CTEDPublicationsView.aspx?tabID=0&ItemID=7897&MId=944&wversion=Staging
7 REF	*Washington State*	Department of Commerce	•Comprehensive planning	Local Government and Infrastructure Division: land use planning assistance; Growth Management Planning; Washington Administrative Code (WAC).	COM	N/A	Ongoing	Online or phone support	http://www.commerce.wa.gov/site/303/default.aspx
8 REF	*Regional*	Wildlife-Habitat Relationships in Oregon and Washington	•Habitat management planning	Reference book on wildlife species and their relationships with habitat types. Includes CD-ROM with additional data and maps, and seven matrixes that link species with their respective habitat types.	N/A	David H. Johnson, Thomas A. O'Neil.	2001	Book, CD-ROM	http://oregonstate.edu/dept/press/u-w/WildlifeHabitat.html

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
1 GD	*Western Washington*	**Protecting Nearshore Habitat and Functions in Puget Sound**	•Shoreline planning •Critical areas •Permitting	Overview and key descriptions of nearshore habitat in Puget Sound. Addresses how nearshore habitats are impacted by shoreline modifications and includes science-supported approaches for protecting nearshore habitats.	WDFW	Multiple	2010	PDF	http://wdfw.wa.gov/publications/pub.php?id=00047
2 GD	*Western Washington*	**Low Impact Development Technical Guidance Manual for Puget Sound**	•Low impact development •Stormwater planning and management •Permitting	Technical guidance manual for design and installation of low impact development, including bioretention, rain gardens, green roofs, etc. Includes detailed specifications, design criteria, and maintenance requirements.	WSU Extension & PSAT	Curtis Hinman	2005	PDF	http://www.psp.wa.gov/downloads/LID/LID_manual2005.pdf
3 GD	*Washington State*	**Aquatic Habitat Guidelines**	•Permitting •Development regulations •Project design planning •Stream and nearshore protection, restoration	Technical assistance guidance for promoting, protecting, and restoring fully functioning marine, freshwater, and riparian habitat. Guidelines to assist in the application of good science for project designs impacting aquatic resources, including salmon habitat, habitat management, construction, operations.	WDFW	Multiple	Ongoing	PDF	http://wdfw.wa.gov/conservation/habitat/planning/ahg/
4 GD	*Washington State*	**Biological Assessment Preparation for Transportation Projects**	•Biological assessments	Guide to biological assessments, required for any major construction project with a federal nexus under the Endangered Species Act. WSDOT has developed specific standards and guidance on content of Biological Assessments and provides training, guidance documents, templates, and protocols.	WSDOT	WSDOT	Ongoing	Website, PDF	http://www.wsdot.wa.gov/Environment/Biology/BA/BAcontent.htm
5 GD	*Washington State*	**Critical Areas Assistance Handbook**	•Critical areas	Guide for local planners adopting Critical Areas Ordinances, including Fish and Wildlife Habitat Conservation Areas.	COM	COM	2003	PDF	http://www.commerce.wa.gov/site/745/default.aspx
6 GD	*Washington State*	**Landscape Planning for Washington's Wildlife**	•Comprehensive planning •Site development •Habitat management planning •SEPA reviews	Information for planners and others that can be used to minimize the impacts of development to wildlife and to conserve biodiversity. A Priority Habitats and Species Guidance Document.	WDFW	WDFW	2009	PDF	http://wdfw.wa.gov/publications/pub.php?id=00023
7 GD	*Washington State*	**Priority Habitats and Species Management Recommendations**	•Comprehensive planning •Site development •Habitat management planning •SEPA reviews	Recommendations on species- and habitat-specific management, including aquatic, riparian, and nearshore species. Guidance on landscape and biodiversity planning.	WDFW	Multiple	Ongoing	PDF	http://wdfw.wa.gov/publications/search.php?Cat=Priority%20Habitats%20and%20Species&SubCat=Management%20Recommendations

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
8 GD	*Washington State*	Land Use Planners' Guide to Salmonid Protection and Recovery	• Shoreline planning • Growth management • Development regulations • Incentive programs	Guide for local planners to connect local salmon recovery with other planning, regulatory, and incentive programs. Part of Aquatic Habitat Guidelines series.	WDFW	Katie Knight	2009	PDF	http://wdfw.wa.gov/publications/pub.php?id=00033
9 GD	*Washington State*	Shoreline Master Program Guidelines	•Shoreline planning	Guidelines for local governments updating Shoreline Master Programs to protect shoreline function. Includes a citizen guide, a planners' toolbox, a section on permits and enforcement, and a media kit.	ECY	ECY	Ongoing	PDF	http://www.ecy.wa.gov/programs/sea/sma/guidelines/index.html
10 GD	*Washington State*	Planning for Parks, Recreation and Open Space in Your Community	•Comprehensive planning •Open space planning	Guide for how parks, recreation, and open space planning can be integrated into overall planning efforts.	COM	COM	2005	PDF	http://www.commerce.wa.gov/DesktopModules/CTEDPublications/CTEDPublicationsView.aspx?tabID=0&alias=CTED&lang=en&ItemID=1691&MId=944&wversion=Staging
1 CS	*Eastern Washington*	Connecting People to Sustain our Natural Heritage Report	•Comprehensive planning •Open space planning	Report by consortium of planners and community members who worked together to implement aspects of the Washington Biodiversity Conservation Strategy at a local scale. Includes North Central Washington Conservation Opportunity Maps.	Biodiversity Council & IRIS	IRIS	2009	PDF	http://www.irisncw.org/Programs/Healthy-Lands.html
2 CS	*Washington State*	Applications for County Land Use Planning	•Habitat assessments •Open space planning	Presentation overviewing conservation planning approaches used by Kitsap, Pierce, Spokane, Whatcom and Thurston Counties. Describes WDFW technical tools that can assist with planning.	WDFW	Eric Neatherlin	2005	PDF	http://www.biodiversity.wa.gov/documents/Neatherlin-Countyplanning.pdf
3 CS	*King County*	Biodiversity Assessment and Planning in King County: The LAB Project	•Long range biodiversity planning •Assessment of current conditions	Project by King County that is part of Local Action for Biodiversity (LAB), an international urban biodiversity initiative through ICLEI--Local Governments for Sustainability. LAB's goal is to improve biodiversity management at the local level.	King County DNRP	Multiple	2006	Website, PDFs	http://www.iclei.org/index.php?id=6767
4 CS	*Kitsap County*	Bainbridge Island Open Space Study	•Open space planning	Report, including maps, that assesses open space on Bainbridge Island. Prioritizes open space land based on biodiversity values and identifies preservation strategies, including regulation and landowner incentives.	City of Bainbridge Island	Multiple	2008	Website, PDFs	http://www.ci.bainbridge-isl.wa.us/open_space_study_report.aspx
5 CS	*Kitsap County*	Chico Watershed Alternative Futures: Planning for Biodiversity	•Watershed planning •Comprehensive planning •Open space planning	Report on Alternative Futures project to better integrate land use and watershed planning. Applies ecosystem analysis to several future land use scenarios to define a preferred watershed plan.	Kitsap County	COM	2005	Website, PDFs	http://www.kitsapgov.com/dcd/nr/chico_creek/chico.htm

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
6 CS	*Kitsap County*	**Kitsap County Surface and Stormwater Management Program: A Case Study**	•Comprehensive planning •Stormwater management	Overview of comprehensive stormwater management program that addresses stormwater management, pollution and water quality. The program establishes a fee structure based on land use and impervious area. Includes how the partnership functions.	PSAT	PSAT	2005	PDF	http://www.psparchives.com/publications/our_work/stormwater/stormwater_resource/stormwater_management/kitsap_manual05.pdf
7 CS	*Spokane County*	**Applying Gap Analysis to County Land Use Planning in Washington State**	•Comprehensive planning •Open space planning •Critical areas	Report on the application of gap analysis to Spokane County's Comprehensive Plan and Critical Areas Ordinance update processes. Biodiversity protection was used as the design strategy.	USGS	Matt Stevenson	1998	Website	http://www.gap.uidaho.edu/Bulletins/7/AGACLUPWS.htm
8 CS	*Western Washington*	**Reining in the Rain: A case study of the city of Bellingham's use of rain gardens to manage stormwater**	•Comprehensive planning •Stormwater management • Low impact development • Permitting	Report on Bellingham's efforts to use rain gardens to help manage stormwater. Includes information on installation, site and design considerations, plant selection, cost, maintenance and monitoring.	City of Bellingham & PSAT	Multiple	2004	PDF	http://www.psparchives.com/publications/our_work/stormwater/stormwater_resource/bioretention/Rain_Garden_book.pdf
9 CS	*Spokane County*	**Rural Cluster Development Brochure**	• Comprehensive planning • Open space planning	Brochure describing rural cluster development. Includes detailed overview of design guidelines, perimeter setbacks, minimum lot size information and more.	Spokane County	N/A	2009	PDF	http://www.spokanecounty.org/data/buildingandplanning/lrp/Brochure%205-14%20small%20file%20siz.pdf
10 CS	*Whatcom County*	**Birch Bay Watershed Characterization and Planning Pilot Study**	•Watershed planning •Critical areas •Comprehensive planning •Permitting	Website and report about a pilot project for land use planning and resource management to improve the quality and condition of local wetland, stream, nearshore and terrestrial resources. Identifies ecosystem relationships, includes wildlife, and prioritizes areas based on ecological processes.	Whatcom County	COM	2007	Website, PDFs	http://www.whatcomcounty.us/pds/naturalresources/specialprojects/birchbaywatershed-actionplan.jsp
11 CS	*Skagit County*	**Northern Skagit County Bays and Shoreline Habitat Conservation and Restoration Blueprint**	• Comprehensive planning • Open space planning • Watershed planning	Report on planning process to restore and protect the habitats and heritage of the northern bays of Skagit County. Includes habitat analysis, priority setting, feasibility studies.	Skagit County Marine Resources Committee	Multiple	2006	PDF	http://www.nwstraits.org/Uploads/pdf/Compressed2005SkagitBayBlueprint.pdf
12 CS	*Pierce County*	**Incorporating Protection of Biodiversity into County Land Use Planning**	•Open space planning	Report on the process of conducting a gap analysis to establish a vegetation map and determine distribution of wildlife species.	USGS	Multiple	1999	Website	http://www.gap.uidaho.edu/Bulletins/8/bulletin8html/GapBulletin844.html

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
13 CS	*Pierce County*	Pierce County Biodiversity Network Implementation in Gig Harbor	• Comprehensive planning • Open space planning • Watershed planning	Web page about community outreach and stewardship planning within a biodiversity management area of Pierce County (Crescent Valley, near Gig Harbor).	PCBA	N/A	2009	Website	http://depts.washington.edu/natmap/projects/bma/gig_harbor/
14 CS	*Pierce County*	Citizen Stewardship of the Pierce County Biodiversity Network: Lower White River	• Comprehensive planning • Open space planning • Watershed planning	Web page and report about community outreach and stewardship planning within a biodiversity management area of Pierce County (lower White River).	PCBA	N/A	N/A	Website, PDF	http://www.biodiversity.wa.gov/ourbiodiversity/updatewhite_river.html http://co.pierce.wa.us/xml/services/home/property/pals/pdf/wbc_pcba_lwr_pilotreport.pdf
1 PL	*Western Washington*	Examples of Regulatory Language for Nearshore and Marine Shoreline Protection	•Shoreline planning •Critical areas	Compilation of existing regulatory language from Puget Sound jurisdictions for nearshore and marine shorelines. Document covers critical area ordinances, shoreline master plans, and provides examples of designation, definition, classification, protection and mitigation.	PSAT	Multiple	2005	PDF	http://www.muniresearch.net/govdocs/PugetSoundRegEx05.pdf
2 PL	*Western Washington*	LID Local Regulation Assistance	• Comprehensive planning • Permitting • Stormwater planning	Summary of technical assistance supplied to local governments to integrate low impact development into development standards and regulations.	PSAT	Multiple	2005-2009	Website, PDFs	http://www.psparchives.com/our_work/stormwater/lid/lid_regs.htm
3 PL	*Washington State*	Example Code Provisions for Designating and Protecting Critical Areas	•Critical areas	Examples of code provisions from jurisdictions throughout the state for designating and protecting critical areas. Appendix A of Critical Areas Assistance Handbook.	COM	COM	N/A	PDF	http://www.commerce.wa.gov/_CTED/documents/ID_958_Publications.pdf
4 PL	*Washington State*	Local Critical Area Examples	•Critical areas	Example critical area ordinances from five cities (Bremerton, Cashmere, Cheney, Edgewood and La Center) and one county (Clark County).	COM	COM	2003	PDF	http://www.commerce.wa.gov/site/745/default.aspx
5 PL	*Washington State*	Example critical area ordinances for cities and small towns	•Critical areas	Example critical area ordinance updates from a number of small Washington State jurisdictions.	COM	COM	2004-2007	PDF	http://www.commerce.wa.gov/portal/alias__CTED/lang__en/tabID__746/DesktopDefault.aspx
6 PL	*Pierce County*	Graham Community Plan Rural Sensitive Resource (RSR) Zone	•Zoning •Permitting	Summary sheet with language for protecting special aspects of a parcel that supports biodiversity.	Pierce County	Pierce County	2007	PDF	http://www.co.pierce.wa.us/xml/services/home/property/pals/pdf/graham%20rsr%20summ.pdf
7 PL	*Washington State*	Landscape Planning for Washington's Wildlife	•Comprehensive Planning	Model countywide planning policies. A Priority Habitats and Species Guidance Document.	WDFW	WDFW	2009	PDF	http://wdfw.wa.gov/publications/pub.php?id=00023

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
1 D&M	*National*	Geospatial One-stop	•Habitat management planning	Portal to geographic data from the federal government and other sources. Create maps, search and access data sets, view metadata.	USGS	USGS	Ongoing	On-line tool	http://gos2.geodata.gov/wps/portal/gos
2 D&M	*Washington State*	Priority Habitats and Species: Maps and Digital Information	•Comprehensive planning •Critical areas •Shoreline planning •Habitat management planning •SEPA reviews •Site planning	Site for requesting maps and/or digital data on locations of species and habitats to consider in land use decisions and activities, from statewide databases maintained by the Washington Department of Fish and Wildlife.	WDFW	WDFW	Ongoing	Website	http://wdfw.wa.gov/conservation/phs/maps_data/
3 D&M	*Washington State*	Conservation Opportunity Framework Maps	•Open space planning	Maps that overlay biodiversity significance with human population trends.	Washington Biodiversity Council	Washington Biodiversity Council	2007	PDF	http://www.biodiversity.wa.gov/documents/Chapter4_WABiodiversityConservationStrategy.pdf
4 D&M	*Western Washington*	Washington Coastal Atlas	•Shoreline planning •Critical areas •Master plan updates	Site for viewing aerial photographs of marine shorelines, locating different habitat types and physical features, and seeing changes in land cover.	Ecology	Ecology	Ongoing	On-line tool	http://www.ecy.wa.gov/programs/sea/sma/atlas_home.html
5 D&M	*National*	Conservation Registry	•Master plan updates •Open space planning	Database that records, tracks and maps on-the-ground conservation projects in public and private lands. Helps users understand the context, distribution, and effectiveness of efforts to protect and restore ecosystems.	Defenders of Wildlife	COM	Ongoing	On-line tool	http://www.conservationregistry.org/about
6 D&M	*National*	LandScope America	•Open space planning	Website that provides maps, data, photos, and stories about natural places to inform and inspire conservation. Offers an interactive mapping tool.	NatureServe	NatureServe	Ongoing	On-line tool	http://www.landscope.org/introduction/
7 D&M	*National*	NatureServe Vista	•Comprehensive planning •Critical areas •Open space planning	Decision-support software that helps users integrate conservation with land use and resource planning and management. NatureServe Vista is a desktop tool built on the ESRI ArcView platform using Spatial Analyst and Microsoft Access.	NatureServe	NatureServe	Ongoing	Software	http://www.natureserve.org/prodServices/vista/overview.jsp
8 D&M	*Washington State*	Local Habitat Assessment Maps and Related Information	•Comprehensive planning •Habitat management planning •Open space planning	Methodology to map current habitat conditions at a variety of scales by combining regional biodiversity priorities with local indicators of habitat condition, such as land conversion, road density, and fish and wildlife priority areas.	WDFW	WDFW	Ongoing	Website, technical assistance	http://wdfw.wa.gov/conservation/habitat/planning/lha/

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
9 D&M	*Washington State*	Wildlife-Habitat Relationships in Oregon and Washington	•Habitat management planning	Reference book on wildlife species and their relationships with habitat types. Includes CD-ROM with additional data and maps, and seven matrixes that link species with their respective habitat types.	N/A	David H. Johnson, Thomas A. O'Neil.	2001	Book, CD-ROM	http://oregonstate.edu/dept/press/u-w/WildlifeHabitat.html
10 D&M	*National*	Ecosystem-Based Management Tools Network	•Comprehensive planning •Habitat assessments •Shoreline planning •Training	Ecosystem-Based Management (EBM) is a management approach that considers the whole ecosystem, including humans and the environment, rather than managing one issue or resource in isolation. EBM tools are software or methods that provide models, generate scenarios, or facilitate stakeholder involvement.	NatureServe	Multiple	Ongoing	Website, Software	http://www.ebmtools.org
11 D&M	*Washington State*	Washington Connected Landscapes Project: Statewide Analysis	•Comprehensive planning •Biological assessments •Critical areas •Habitat assessments	Maps that analyze patterns of habitat distribution across Washington State, interpreted through the behaviors and natural histories of some of Washington's more mobile vertebrate wildlife, using computer models and expert knowledge.	WWHCWG	Multiple	Ongoing	Website, PDF	http://www.waconnected.org/
1 T&C	*National*	Online Training for Watershed Management	•Shoreline planning •Critical areas •Comprehensive planning	Online modules and certificate program on watershed management and planning. Topics covered: watershed ecology, watershed change, analysis and planning, management practices, community/social/water law.	US EPA	N/A	Ongoing	On-line Tool	http://cfpub.epa.gov/watertrain/index.cfm
2 T&C	*Western Washington*	Coastal Training Program	•Shoreline planning •Stormwater management •Comprehensive planning	Classes that combine classroom learning with field time. Subjects include: stormwater management, planning for climate change, wetland mitigation, protecting aquatic ecosystems, and others.	WA Ecology	N/A	Ongoing	Field and classroom	http://www.coastaltraining-wa.org/
3 T&C	*Western Washington*	Low Impact Development Technical Workshop Series	•Low impact development •Stormwater management •Permitting	Certificate program addressing low impact development in four technical workshops: bioretention, LID for buildings, permeable paving, and site planning.	WSU Extension	N/A	Ongoing	Classroom	http://conferences.wsu.edu/conferences/lidworkshops/cert.aspx
4 T&C	*Western Washington*	Short Course on Local Planning and Manual	•Comprehensive planning	Workshop that covers the legal basis of planning in Washington State. Explains the basics of comprehensive planning, plan implementation, and role of the planning commission.	COM	N/A	Ongoing	Classroom, PDF	http://www.commerce.wa.gov/portal/alias__cted/lang__en/tabID__395/DesktopDefault.aspx
5 T&C	*Western Washington*	Green Shores	•Shoreline planning	Voluntary certification procedure for developers, contractors and landowners to encourage sustainable planning and design that recognizes the ecological features and functions of coastal systems.	Green Shores	N/A	COM	Website	http://www.greenshores.ca/index.asp

ID	Geographic Region	Name	Tool Uses	Tool Description	Sponsor Agency	Author(s)	Year	Tool Format	Information Source
6 T&C	*Western Washington*	Salish Sea Ecosystem Conference (formerly Puget Sound Georgia Basin Research Conference)	•Conference •Training •Education	Conference for sharing scientific information and management tools about ecosystems in the Salish Sea region.	PSP & EC	N/A	Odd years (October 2011)	Website (registration, resources)	http://www.salishseaconference.org/
7 T&C	*Regional*	Society of Ecological Restoration Northwest Chapter	•Conference •Training •Education	Organization offers resources and platform for sharing current restoration and conservation tools and research from the Pacific Northwest region.	SER-NW	N/A	Ongoing	Website (events, resources)	http://www.ser.org/content/regional_chapters.asp
8 T&C	*Washington State*	American Planning Association--Washington	•Conference •Training •Education	Organization offers resources, training, annual conference and other events for local planners. Hosts Climate and Sustainability wiki.	APA-WA	N/A	Ongoing	Website (events, resources)	http://www.planning.org/conference/
9 T&C	*Washington State*	Planning Association of Washington	•Conference •Training •Education	Organization offers resources for planning commissions and co-host's short course on local planning with Commerce.	PAW	N/A	Ongoing	Website (events, resources)	http://www.planningpaw.org/